

\* SWBAT connect heat flow and temperature to equilibrium

Sep 6-2:31 PM

# Welcome!!!

H. Leslie Grebe

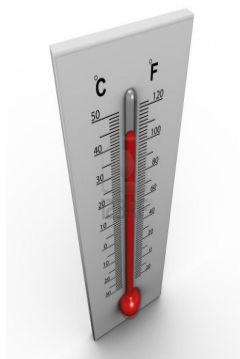
WBL ALC Physics  
Thursday 9 January 2014

- \* Sign in
- \* Pick up:
  - card with a # and piece of tape
  - slip of paper (for later)

Centering...

Opening question:

Where on our thermometer should  
your number go?



Eureka 20: Measuring Temperature

<http://www.youtube.com/watch?v=S2zLnGPwYoY>

Sep 7-7:04 AM

## Big Ideas!

- Temperature is a measure of the AVERAGE internal energy

- Degree labels are arbitrary

except for...

KELVIN WHERE  $\phi$  MEANS  
NO MOLECULE MOTION  
SAME SIZE  
DEGREES AS CELSIUS

- HEAT is the flow (transfer) of that internal kinetic energy

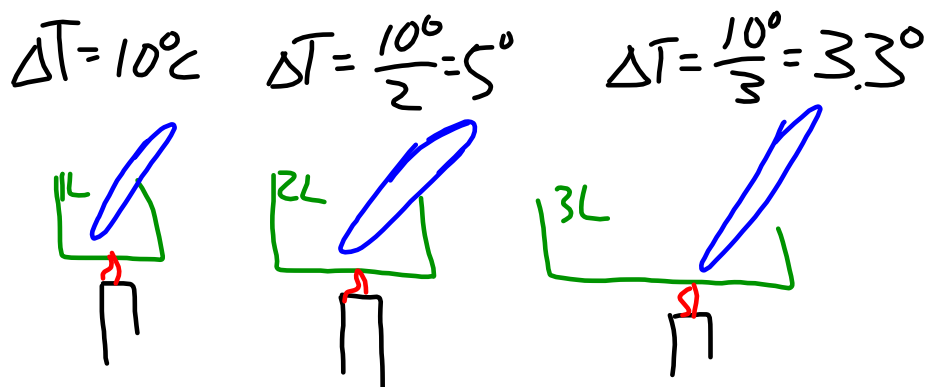
- Heat will flow until things in contact reach EQUILIBRIUM  
same temperature!

Dec 14-7:13 AM

## Worksheet: Temperature and Heat

When you are done with the worksheet:

- \* On the back of your worksheet
- \* Come up with at least 3 T/F questions about temp & heat
- \* On the back write whether it is T/F and why you say that



Jan 3-7:45 AM

● LITTLE ROCK



Which has more molecular kinetic energy?



Jan 3-7:44 AM

### Daily 3 Questions

- \* Every day except test/project days
- \* 3 Questions on the topics of the day
- \* Main source of daily points
- \* I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

CP homework: Create 1 thought / discussion provoking T/F question, supply the answer and an explanation.

Your can't get your points if you don't have your NAME!!!

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. Water boils at

- A.  $100^{\circ}\text{C}$       B.  $212^{\circ}\text{F}$   
☒ C. Both A&B      D. Neither

2. If a certain amount of heating will raise the temp of 1 liter of water by  $10^{\circ}$ , how much will the same amount of heating raise the temp of 2 liters of water?

- A.  $20^{\circ}$       B.  $10^{\circ}$       ☒ C.  $5^{\circ}$

3. ☒ True or False: When a really hot object is placed in a bucket of water, heat will flow until the object and the water reach equilibrium and have the same temperature.

Dec 2-7:55 AM